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DATE MAILED: 05/15/2008

### NOTICE OF ALLOWANCE AND FEE(S) DUE

25763 7590 05/15/2008

DORSEY & WHITNEY LLP

INTELLECTUAL PROPERTY DEPARTMENT
SUITE 1500
50 SOLITH SIXTH STREET

MINNEAPOLIS, MN 55402-1498

EXAMINER
GORDON, BRIAN R

ART UNIT PAPER NUMBER

1797

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/936,932	01/16/2002	Peter Hagerlid	14256	2854		
THE COUNTY OF THE PROPERTY OF						

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

maintenance fee notificati	ions.							ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				pape	rs. Each additiona	I paper	g can only be used for icate cannot be used for such as an assignment iling or transmission.	domestic mailings of the or any other accompanying at or formal drawing, must
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DORSEY & WHITNEY LLP INTELLECTUAL PROPERTY DEPARTMENT SUITE 1500 50 SOUTH SIXTH STREET				I her State addr trans	why certify that the	is Feet	c) Transmittal is being	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
	MN 55402-1498							(Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVE		TOR ATT		RNEY DOCKET NO.	CONFIRMATION NO.
09/936,932	01/16/2002		Peter Hagerlid				14256	2854
TITLE OF INVENTION:	LIQUID DISPENSING	APPARATUS						
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE	DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0		\$0		\$1440	08/15/2008
EXAMI	NER	ART UNIT	CLASS-SUBCLAS	s				
GORDON,	BRIAN R	1797	422-100000	_	ļ			
1. Change of corresponder	nce address or indicatio	n of "Fee Address" (	37 2. For printing on	the pa	atent front page, lis	t		
CFR 1.363).  Change of correspo	ndence address (or Cha	nge of Corresponder	(1) the names of or agents OR, alto	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,				
☐ Change of correspondence address (or Change of Correspondenc Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			registered attorne 2 registered pater	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AN								
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Com	fied below, no assigned	gnee data will appear on s NOT a substitute for filis	the pa	itent. If an assign	ee is io	dentified below, the do	cument has been filed for
(A) NAME OF ASSIG			(B) RESIDENCE: (					
Please check the appropria	ate assignee category or	categories (will not	be printed on the patent):		Individual 🗖 Co	orporati	ion or other private gro	up entity 🚨 Government
4a. The following fee(s) a	re submitted:		4b. Payment of Fee(s):		se first reapply ar	ıy prev	iously paid issue fee s	hown above)
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted)				☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			☐ The Director is b	The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity State	us (from status indicated						ITTY status. See 37 CF	
								e assignee or other party in
Authorized Signature					Date			
Typed or printed name				Registration No				
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur ginia 22313-1450. DO 3-1450.	FR 1.311. The infor U.S.C. 122 and 37 ( USPTO. Time will den, should be sent NOT SEND FEES	mation is required to obtai CFR 1.14. This collection vary depending upon the to the Chief Information of OR COMPLETED FORM	in or n is esti indiv Office MS TO	etain a benefit by t imated to take 12 r idual case. Any co r, U.S. Patent and D THIS ADDRESS	he pub ninute: mment Trader i. SEN	tic which is to file (and s to complete, includin is on the amount of tin nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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MINNEAPOLIS, MN 55402-1498

# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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09/936,932	01/16/2002	Peter Hagerlid	14256	2854	
25763 75	590 05/15/2008	EXAMINER			
DORSEY & WHITNEY LLP			GORDON, BRIAN R		
INTELLECTUAL PROPERTY DEPARTMENT			ART UNIT	PAPER NUMBER	
SUITE 1500 50 SOUTH SIXTH STREET			1797 DATE MAILED: 05/15/200	8	

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	_
09/936,932	HAGERLID ET AL.	
Examiner	Art Unit	٦
Brian R. Gordon	1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 1-18-08.
- The allowed claim(s) is/are 2,3,16,18,20-23 and 25-31.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. 

      Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) Thereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

# Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. ☐ Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_\_.
- 7. X Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

Application/Control Number: 09/936,932

Art Unit: 1797

#### DETAILED ACTION

# Allowable Subject Matter

1. Claims 2-3, 16, 18, 20-23, 25-31 are allowed.

#### Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Churchill, Carl et al.; Tseng, Fan-Gang et al.; Stylli, Chari et al.; Sasaki, Glenn C.; Ingenhoven; Nikolaus et al.; Little; Daniel P. et al.; Little; Daniel P. et al.; Cazit; Arnona et al.; Husar, Dieter et al.; Yamakawa; Hironobu et al.; Legge; Coulton Heath; and Dunnington; Damien J. et al. disclose nanoliter dispensers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Gordon whose telephone number is 571-272-1258. The examiner can normally be reached on M-F. 1st Fri. Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1797

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian R Gordon/ Primary Examiner Art Unit 1797